

# Abby Normal

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## EDUCATION

### University of New Hampshire, College of Engineering and Physical Sciences

B.S. in Bioengineering

Durham, NH  
Expected May 2017

#### Relevant Coursework:

- Organic Chemistry
- Microbiology
- Thermodynamics
- Biomedical Engineering
- Physiology
- Biochemistry
- Biomaterials
- Bioengineering Design I

## EXPERIENCE

### Massachusetts General Hospital: Center for Engineering in Medicine

Intern

Boston, MA  
May 2016 – Present

- Research and develop a plan to implement whole organ tissue engineering and stem cells
- Work closely with a post-doctoral fellow each day
- Enhance skills and understanding of new technology in scientific development workshops
- Attend research seminars and weekly meetings

### Worthen Industries, Inc.

Laboratory Assistant

Nashua, NH  
May 2015 – August 2015

- Conducted pilot-scale analysis of various water-based silicone emulsion coatings
- Calculated annual VOC emissions using previously recorded results
- Assisted plant inspector on weekly and monthly inspections for New England facilities
- Implemented preventive safety measures for handling hazardous equipment

### University of New Hampshire Glycomics Laboratory

Volunteer Laboratory Assistant

Durham, NH  
October 2014 – March 2015

- Executed sequential glycolipid N- and O- linked glycan releases for glycomic structure analysis
- Performed MALDI-TOF mass spec analysis on eluted sample of glycans
- Produced comparative analysis results using glycoworkbench

## TECHNICAL SKILLS

#### Applications:

ISSE image processing, Lab View, AutoCAD R14, Pro-Engineering, Simulink, PowerPoint, Excel, and Photoshop

#### Lab Equipment:

Oscilloscope, Function Generator, Digital Multimeter, Spectrometer, Fluorescent Microscope with CCD Technology, and Scanning Electron Microscope

#### Lab Techniques:

Three-dimensional Cell Culture and Cell Line Maintenance, Gel Electrophoresis (Zymography), Western Blot, Elisas, Flow Cytometry, Immunofluorescence Staining, and RNA extraction

## PROFESSIONAL ASSOCIATIONS

### Society of Women Engineers (SWE)

Student Treasurer

Durham, NH  
December 2015 – Present

- Organize fundraising events to support travel to the SWE Conference each semester
- Allocate funding to travel to local middle schools to support the growth of women in science and engineering

### International Society for Pharmaceutical Engineers (ISPE)

Student Member

Durham, NH  
September 2014 – Present

- Attend classroom training events to further knowledge of various pharmaceutical subjects
- Involved in a mentorship program through which a professional assists with career guidance